



substituteseq.txt

SEQUENCE LISTING

<110> Kiselev, vsevolod I
Petr, Sveshnikov G

<120> METHODS, KITS, AND COMPOSITIONS FOR THE DEVELOPMENT AND USE
OF MONOCLONAL ANTIBODIES SPECIFIC TO ANTIGENS TRADITIONALLY
OF LOW IMMUNOGENICITY

<130> Immunize

<150> RU 2003128660

<151> 2003-09-25

<160> 22

<170> Patentln version 3.1

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<212> DNA

<213> Human papillomavirus type 16

<220>

<221> CDS

<222> (7)..(303)

<223>

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Asp Leu Gln Pro Glu Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn	
15 20 25 30	
gac agc tca gag gag gag gat gaa ata gat ggt cca gct gga caa gca	144
Asp Ser Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala	
35 40 45	
gaa ccg gac aga gcc cat tac aat att gta acc ttt tgt tgc aag tgt	192
Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys	
50 55 60	
gac tct acg ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt	240
Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg	
65 70 75	
act ttg gaa gac ctg tta atg ggc aca cta gga att gtg tgc ccc atc	288
Thr Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile	
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Cys Ser Gln Lys Pro	
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<212> PRT

<213> Human papillomavirus type 16

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 35 40 45
 Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser
 50 55 60
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<222> (7)..(324)

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caa tta agc gac tca gag gaa gaa aac gat gaa ata gat gga gtt aat Gln Leu Ser Asp Ser Glu Glu Glu Asn Asp Glu Ile Asp Gly Val Asn 35 40 45	144
cat caa cat tta cca gcc cga cga gct gaa cca caa cgt cac aca atg His Gln His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met 50 55 60	192
ttg tgt atg tgt tgt aag tgt gaa gcc aga att gag cta gta gta gaa Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu 65 70 75	240
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ctg tcc ttt gtg tgt ccg tgg tgt gca tcc cag cag ggatcc Leu Ser Phe Val Cys Pro Trp Cys Ala Ser Gln Gln	330

substituteseq.txt

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<210> 4

<211> 106

<212> PRT

<213> Human papillomavirus type 18

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20 25 30

Ser Asp Ser Glu Glu Glu Asn Asp Glu Ile Asp Gly Val Asn His Gln
35 40 45

His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met Leu Cys
50 55 60

Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu Ser Ser
65 70 75 80

Ala Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser
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Phe Val Cys Pro Trp Cys Ala Ser Gln Gln
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<213> Artificial Sequence

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substituteseq.txt

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substituteseq.txt

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 <213> Bos taurus

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<210> 7
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 <212> PRT
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substituteseq.txt

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Ser

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<223> HSP 16/HSP18 E7 gene insertion site

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